

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1. (previously presented) A telecommunications system for providing a facility for
2 communicating internet packets to and/or from a mobile user equipment, payload data of the
3 internet packets comprising a plurality of different types of data, the system comprising a packet
4 radio network which includes a gateway support node, a serving support node and a radio
5 network controller,

6 the gateway support node being operable to provide an interface for communicating the
7 internet packets between the mobile user equipment and the packet data network,

8 the serving support node being operable to control communication of the internet packets
9 between the gateway support node and the mobile user equipment using a radio network
10 controller, the radio network controller being operable to provide radio access bearers for
11 communicating the internet packets to and from the mobile user equipment, wherein

12 the gateway support node in combination with the serving support node are operable in
13 response to context application request data from the mobile user equipment to establish a virtual
14 communications channel between the gateway support node and the mobile user equipment via
15 the serving support node, the context application request data representing a request for the
16 virtual communications channel for communicating the internet packets containing the different
17 types of data, the context application request data specifying a main set of quality of service
18 parameters and including at least one other data field representing a request for a different set of
19 quality of service parameters, each set of quality of service parameters being provided for one of
20 the different types of data in the internet packet, the virtual communications channel including a
21 bearer for communicating the internet packets between the gateway support node and the serving
22 support node and a plurality of radio access bearers, each of the radio access bearers being
23 provided for one of the different types of payload data of the internet packets, each radio access
24 bearer providing one of the main and other set of quality of service parameters for the different
25 data types specified by the context application request data.

1 2. (original) A telecommunications system as claimed in Claim 1, wherein the serving
2 support node is operable in response to the virtual communications channel being established
3 to communicate radio access request data in accordance with a radio access network
4 application part protocol to the radio network controller, and the radio network controller is
5 operable in combination with a radio resource control layer to establish using a medium access
6 control layer one of the radio access bearers for each of the plurality of quality of service
7 parameters specified for the different data type.

1 3. (original) A telecommunications system as claimed in Claim 2, wherein the radio
2 resource control layer is operable
3 to establish the radio access bearers as a main radio access bearer in accordance with the
4 main quality of service parameters in the medium access control layer, and
5 to establish the radio access bearer for each of the different data types as a sub flow
6 within the main radio access bearer in the medium access control layer.

1 4. (previously presented) A telecommunications system as claimed in Claim 1, wherein the
2 payload data of the internet packets includes a data frame formed from an adaptive multi-rate
3 speech codec, the data frame providing the plurality of the different types of data.

1 5. (previously presented) A telecommunications system as claimed in Claim 1, wherein the
2 mobile user equipment is operable to communicate the context application request data to the
3 gateway support node in accordance with a Packet Data Protocol context activation procedure.

1 6. (previously presented) A method of communicating internet packet data to and/or from a
2 mobile user equipment via a packet radio network, payload data of each internet packet
3 comprising a plurality of different types of data, the packet radio network including a gateway
4 support node, a serving support node and a radio network controller the method comprising
5 using the serving support node of the packet radio network to control communication of
6 the internet packets between the gateway support node and the mobile user equipment using the
7 radio network controller, the radio network controller being operable to provide radio access
8 bearers for communicating the internet packets to and from the mobile user equipment,
9 communicating context application request data to the gateway support node, the context
10 request data representing a request for a virtual communications channel for communicating the

11 internet packets containing the different types of data via the packet radio network, the context
12 application request data including a data field specifying a main set of quality of service
13 parameters and including at least one other data field representing a request for a different set of
14 quality of service parameters, each of the sets of quality of service parameters being provided for
15 one of the different types of data in the internet packets, and

16 establishing the virtual communications channel between the gateway support node and
17 the mobile user equipment in response to the context application request data for communicating
18 the internet packet data,

19 including establishing a plurality of radio access bearers in accordance with each of the
20 sets of the quality of service parameters, each radio access bearer being provided for
21 communicating one of the plurality of different types of payload data of internet data packets.

1 7. (original) A method as claimed in Claim 6, the establishing the virtual channel comprises
2 communicating radio access request data in accordance with a radio access network
3 application part protocol to the radio network controller, and

4 using a medium access control layer of the radio network controller to establish the radio
5 access bearer for each of the plurality of quality of service parameters for one of the different data
6 types.

1 8. (original) A method as claimed in Claim 7, wherein the using the medium access control
2 layer comprises

3 establishing a main radio access bearer in accordance with the main quality of service
4 parameters in the medium access control layer, and

5 establishing the radio access bearer for each of the different data types as a sub-flow
6 within the main radio access bearer in the medium access control layer.

1 9. (previously presented) A method as claimed in Claim 6, wherein the payload data of the
2 internet packets includes a data frame formed from an adaptive multi-rate speech coded, the data
3 frame providing the plurality of the different data types of data.

1 10. (previously presented) A method as claimed in Claim 6, wherein the context application
2 request data is communicated in accordance with a Packet Data Protocol context activation
3 procedure.

1 11. (canceled)

1 12. (canceled)

1 13. (previously presented) A radio network controller of a packet radio network for
2 communicating internet packets between a serving support node and a mobile communications
3 user equipment, payload data of each of the internet packets comprising a plurality of different
4 types of data, the radio network controller comprising

5 a radio resource layer for controlling radio resources for communicating the internet
6 packets,

7 a radio link control layer for controlling a medium access control layer to provide radio
8 access bearers for communicating the internet packets via a radio access interface to the mobile
9 communications user equipment, the radio link control layer providing the radio resources
10 controlled by the radio resource layer, wherein the radio resource layer is responsive to a radio
11 access request data using a radio access network application protocol layer to control the radio
12 link control layer to establish using the medium access control layer a main radio access bearer
13 for one of the different types of data in accordance with a main set of quality of service
14 parameters, and

15 to establish a radio access bearer for each of the different data types as a sub-flow within
16 the main radio access bearer in the medium access control layer.

1 14. (previously presented) A mobile user equipment for communicating internet packets,
2 payload data of each of the internet packets data comprising a plurality of different types of data,
3 the mobile user equipment being operable to communicate context application request data to a
4 serving support node of a packet radio network, the context request data representing a request
5 for a virtual communications channel for communicating the internet data packets containing the
6 different types of data, where the request data includes a data field specifying a main set of
7 quality of service parameters and at least one other data field representing a request for at least
8 one other radio access bearer providing a different quality of service parameters, each of the radio
9 access bearers being provided for one of the different types of data in the payload of the internet
10 packets.

1 15. (previously presented) A computer program providing computer executable instructions,
2 which when loaded on to a data processor configures the data processor to perform a method for
3 communicating internet packets to and/or from a mobile user equipment via a packet radio
4 network, payload data of each of the internet packets comprising a plurality of different types of
5 data, the packet radio network including a gateway support node, a serving support node and a
6 radio network controller the method comprising

7 controlling communication of the internet packets between the gateway support node and
8 the mobile user equipment using the radio network controller, the radio network controller being
9 operable to provide radio access bearers for communicating the internet packets to and from the
10 mobile user equipment,

11 communicating context application request data to the gateway support node, the context
12 application request data representing a request for a virtual communications channel for
13 communicating the internet packets containing the different types of data between the gateway
14 support node and the mobile user equipment, the context application request data including a
15 data field specifying a main set of quality of service parameters and at least one other data field
16 representing a request for a respective set of quality of service parameters, each of the sets of
17 quality of service parameters being provided for one of the different types of data in the internet
18 packets, and

19 establishing the virtual communications channel in response to the context application
20 request data, including establishing a radio access bearer for each of the sets of quality of service
21 parameters for communicating the different types of payload data in the internet packets.

1 16. (original) A computer program as claimed in Claim 15 embodied on a computer readable
2 medium.

1 17. (previously presented) An apparatus for communicating internet packet data to and/or
2 from a mobile user equipment via a gateway support node, the internet packet data carrying a
3 plurality of different types of data, the apparatus comprising

4 means for communicating the data packets between to the mobile user equipment and the
5 gateway support node,

6 means for controlling communication of the data packets between the mobile user
7 equipment using a radio network controller, the radio network controller being operable to

8 provide radio access bearers for communicating the internet data packets to and from the mobile
9 user equipment,

10 means for communicating context application request data to the gateway support node,
11 the context application request data representing a request for a virtual communications channel
12 for communicating the data packets containing the different types of data, the context application
13 request data including a data field specifying a main set of quality of service parameters and at
14 least one other data field representing a request for a different set of quality of service
15 parameters, each of the sets of quality of service parameters being provided for one of the
16 different types of data in the data packet, and

17 means for establishing the virtual communications channel between the gateway support
18 node and the mobile user equipment in response to the context application request data,

19 including establishing a radio access bearer in accordance with each of the sets of quality
20 of service parameters for communicating the different data types.

1 18. (canceled)

1 19. (canceled)

1 20. (previously presented) A telecommunications system as claimed in Claim 2, wherein the
2 payload data of the internet packets includes a data frame formed from an adaptive multi-rate
3 speech codec, the data frame providing the plurality of the different types of data.

1 21. (previously presented) A telecommunications system as claimed in Claim 3, wherein the
2 payload data of the internet packets includes a data frame formed from an adaptive multi-rate
3 speech codec, the data frame providing the plurality of the different types of data.

1 22. (previously presented) A telecommunications system as claimed in Claim 2, wherein the
2 mobile user equipment is operable to communicate the context application request data to the
3 gateway support node in accordance with a Packet Data Protocol context activation procedure.

1 23. (previously presented) A telecommunications system as claimed in Claim 3, wherein the
2 mobile user equipment is operable to communicate the context application request data to the
3 gateway support node in accordance with a Packet Data Protocol context activation procedure.

1 24. (previously presented) A telecommunications system as claimed in Claim 4, wherein the
2 mobile user equipment is operable to communicate the context application request data to the
3 gateway support node in accordance with a Packet Data Protocol context activation procedure.

1 25. (previously presented) A telecommunications system as claimed in Claim 20, wherein
2 the mobile user equipment is operable to communicate the context application request data to the
3 gateway support node in accordance with a Packet Data Protocol context activation procedure.

1 26. (previously presented) A telecommunications system as claimed in Claim 21, wherein
2 the mobile user equipment is operable to communicate the context application request data to the
3 gateway support node in accordance with a Packet Data Protocol context activation procedure.

1 27. (previously presented) A method as claimed in Claim 7, wherein the payload data of the
2 internet packets includes a data frame formed from an adaptive multi-rate speech coded, the data
3 frame providing the plurality of the different data types of data.

1 28. (previously presented) A method as claimed in Claim 8, wherein the payload data of the
2 internet packets includes a data frame formed from an adaptive multi-rate speech coded, the data
3 frame providing the plurality of the different data types of data.

1 29. (previously presented) A method as claimed in Claim 7, wherein the context application
2 request data is communicated in accordance with a Packet Data Protocol context activation
3 procedure.

1 30. (previously presented) A method as claimed in Claim 8, wherein the context application
2 request data is communicated in accordance with a Packet Data Protocol context activation
3 procedure.

1 31. (previously presented) A method as claimed in Claim 9, wherein the context application
2 request data is communicated in accordance with a Packet Data Protocol context activation
3 procedure.

1 32. (previously presented) A method as claimed in Claim 27, wherein the context application
2 request data is communicated in accordance with a Packet Data Protocol context activation
3 procedure.

1 33. (previously presented) A method as claimed in Claim 28, wherein the context application
2 request data is communicated in accordance with a Packet Data Protocol context activation
3 procedure.

1 34. (new) A telecommunications system as claimed in Claim 1, wherein the serving support
2 node comprises

3 an internet protocol communications layer and

4 a user data tunnelling layer operable to provide the virtual communications channel for
5 communicating user data between the mobile user equipment and the gateway support node,
6 wherein the serving support node is operable in combination with the gateway support node to
7 respond to context application request data from the mobile user equipment

8 to establish the virtual communications channel between the gateway support node and
9 the mobile user equipment via the serving support node for communicating the internet packets,
10 and

11 in response to the context application request data including a data field representing
12 main set of quality of service parameters and at least one other data field representing a request
13 for a different set of quality of service parameters, each set of quality of service parameters being
14 required for one of the different types of data in the internet packets,

15 to establish a plurality of radio access bearers each in accordance with one of the sets of
16 the quality of service parameters, each radio access bearer being provided for one of the different
17 types of payload data of the internet packets.

1 35. (new) A telecommunication system as claimed in Claim 34, wherein the serving support
2 node further comprises

3 a radio access network application part protocol layer, wherein the serving support node
4 is operable in response to the virtual channel being established through the user data tunnelling
5 layer,

6 to communicate radio access request data using the radio access network application
7 protocol layer to a radio network controller to establish using a medium access control layer of
8 the radio network controller a radio access bearer for each of the different types of data in
9 accordance with a respective set of quality of service parameters.